



Mobile Electronic Documentation (MED)

TIU*1.0*257

Installation Guide

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(This page included for two-sided copying.)

Introduction

This manual contains information for the installation of Mobile Electronic Documentation (MED) patch TIU*1*157. Other information required to maintain this application is included in the MED Technical Manual.

TIU*1*257 addresses two potential patient safety issues with the Mobile Electronic Documentation application released with TIU*1.0*244.

The first issue addressed is related to the intermittent failure when retrieving patient data into the MED database when two or more users simultaneously attempted to retrieve health summary information. The data was either not imported or imported and associated within the MED database to the incorrect patient.

The second issue addressed is related to a patient having an incomplete or corrupted date of birth. MED would not allow patient information to be retrieved and would not allow that patient to be imported into the MED database. This issue is fixed in the latest GUI client application.

NOTE: The option [TIU MED GUI RPC] from TIU*1.0*244 will be removed and replaced with the following option when TIU*1.0*257 is installed:

Mobile Electronic Documentation [TIU MED GUI RPC V2]
Creates the desired context for the GUI application on the VistA server.

Installation Order:

1. TIU*1*244 KIDS build (which should already be installed by the compliance date, October 31, 2010)
2. TIU*1*257 KIDS build
3. MED Setup.exe from *257 (GUI Client Install file)

(This page included for two-sided copying.)

Installation

The MED application consists of an M (or server) component and a Windows (or Client) component. All the required files are contained in the distribution zip file: TIU_1_257_MED.ZIP.

Software and Documentation Retrieval

The KIDS build and GUI Client are being distributed as a ZIP file that contains a HOST file (KIDS) and the GUI client.

Complete documentation for the MED application is included in the required patch TIU*1.0*244. Installation instructions for the TIU*1.0*257 KIDS build and the GUI client are included in this Installation Guide.

Documentation

Documentation is available for the TIU Mobile Electronic Documentation application on the ANONYMOUS.SOFTWARE directory at one of the following Office of Information (OI) Field Offices. Sites will be able to use documentation in either the ".PDF" or "DOC" format.

The preferred method is to FTP the files from: Download.vista.med.va.gov

This transmits files from the first available FTP server. Sites may also elect to retrieve documentation directly from a specific server as follows:

Albany	ftp.fo-albany.med.va.gov
Hines	ftp.fo-hines.med.va.gov
Salt Lake City	ftp.fo-slc.med.va.gov

File Name	Retrieval format:
TIU_1_257_MED_IG.DOC	BINARY
TIU_1_257_MED_IG.PDF	BINARY
TIU_1_244_MED_TM.DOC	BINARY
TIU_1_244_MED_TM.PDF	BINARY
TIU_1_244_MED_UM.DOC	BINARY
TIU_1_244_MED_UM.PDF	BINARY

Documentation may also be found on the VA Software Document Library web page at: <http://www.va.gov/vdl>.

Software

The file listed below must be obtained from a password protected FTP server located in Silver Spring during the phased implementation. The implementation manager will contact each site with the username and password needed to access the file.

File Name:	Description:	Transfer Type:	Directory:
TIU_1_257_MED.ZIP	Contains the KIDS build &	binary	[TIUMED]

MED Setup.exe (GUI client
Install file)

Contents of ZIP file:	Description:
MED Setup.exe	MED GUI Client Install File
TIU_1_257_MED.KID	KIDS build

FTP Address: 10.2.29.141 or 10.2.29.142

Username: See Below*

Password: See Below*

IMPORTANT: This patch will be implemented in a phased approach and is scheduled to be coordinated from FY2011 Q2 until FY2011 Q4. Thereafter, it will be a standard, monitored release that will begin upon completion of the first phase.

On your scheduled implementation date, your IRM POC will be contacted with the username and password needed to obtain the software from the protected server. Site questions and problems should be reported via Remedy.

When the phased implementation has ended, the preferred method will be to FTP the files from download.vista.med.va.gov.

This transmits the files from the first available FTP server. Sites may also elect to retrieve software directly from a specific server as follows:

OIFO	FTP Address	Directory
Albany	ftp.fo-albany.med.va.gov	anonymous.software
Hines	ftp.fo-hines.med.va.gov	anonymous.software
Salt Lake City	ftp.fo-slc.med.va.gov	anonymous.software
VistA Download Site	download.vista.med.va.gov	anonymous.software

The option [TIU MED GUI RPC] from TIU*1.0*244 will be removed and replaced with the following option:

Mobile Electronic Documentation [TIU MED GUI RPC V2]

This option creates the desired context for the GUI application on the server.

Installation Instructions (KIDS Build only):

This patch may be installed with users on the system. Installation of this patch should take less than 2 minutes.

1. Use the 'LOAD A DISTRIBUTION' option on the KIDS Installation menu. When prompted to enter a Host File, type in TIU_1_257_MED.KID.
 - a. Answer YES to the question: Want to Continue with Load? YES//

2. From the Kernel Installation and Distribution System Menu, select the Installation menu.
3. From this menu, you may elect to use the following options (when prompted for the INSTALL NAME, enter TIU*1.0*257).
 - a) Backup a Transport Global - this option will create a backup message of any routines exported with the patch. It will NOT backup any other changes such as DDs or templates.
 - b) Compare Transport Global to Current System - this option will allow you to view all changes that will be made when the patch is installed. It compares all components of the patch (routines, DDs, templates, etc.).
 - c) Verify Checksums in Transport Global - this option will allow you to ensure the integrity of the routines that are in the transport global.
 - d) Print Transport Global - this option will allow you to view the components of the KIDS build.
4. Use the Install Package(s) option and select the package TIU*1.0*257.
5. If prompted 'Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES//', respond NO.
6. If prompted 'Want KIDS to INHIBIT LOGONs during the install? NO//' respond NO
7. If prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//' respond NO.
8. If prompted 'Delay Install (Minutes): (0-60): 0//', respond '0'.

Post Install Instructions:

Please refer to the Mobile Electronic Documentation's User Manual, distributed with TIU*1.0*244, for further information about using MED.

Routine Checksum

ROUTINE NAME: TIUMED1

Before: B39834276 After: B40119157

Summary of MED Setup

The options on the *Manage Mobile Electronic Documentation* Menu allow Information Resources Management (IRM) staff and Clinical Applications Coordinators (CAC) to set and modify various parameters that control the behavior of the package. These options are described in the following pages of this section.

1. After installation of TIU*1*257, assign TIU MED MGT key to IRM/CAC Staff, if not already assigned.
2. Assign IRM/CAC Staff the MANAGE MOBILE ELECTRONIC DOCUMENTATION [TIU MED MANAGEMENT] menu option.
3. Assign IRM/CAC Staff the HEALTH SUMMARY PARAMETER DELETE [TIU MED DEL PARM] menu option.
4. Assign the TIU MED MANUAL PATIENT or TIU MED MANUAL OVERRIDE security keys to select individuals who will be tasked with validating patient identification for manually entered MED patients. Most users should **NOT** be given this key.
5. Assign MED GUI users the Mobile Electronic Documentation 1.0 [TIU MED GUI RPC V2] menu option.
6. Set up the MED GUI executable (install on client computers [PCs] and laptops).
7. Enter MED parameters to the application executable to ensure that they are all appropriate for your site.
 - a. s= [VistA server name]
 - b. p= [RPC Broker port number]
8. For example: Med.exe s=test.alexandria.med.va.gov p=9201, where “test.alexandria.med.va.gov” represents the VistA server name and “9201” represents the RPCS Broker port number.
9. Assign GUI users “write” permission to the Mobile Electronic Documentation folder. In order for users to write the appropriate information during use of the MED software, they **MUST** have write access to this folder.

Setting MED Parameters

MED parameters are set and/or modified through the following options and menus. The user must have the TIU MED MGT key to use these options.

Menu Text	Option Name (in Option file #19)
MANAGE MOBILE ELECTRONIC DOCUMENTATION	TIU MED MANAGEMENT
HEALTH SUMMARY PARAMETER DELETE	TIU MED DEL PARM

MED Configuration (IRM/CAC)

Parameter	Parameter Description
Health Summary Type for MED [TIU MED HSTYPE]	Health Summary file

MANAGE MOBILE ELECTRONIC DOCUMENTATION [TIU MED MANAGEMENT]

This option allows IRM/CAC Staff to set or modify the parameter that will be used to generate health summaries in MED. Your site will need to identify an existing health summary or create a new health summary that will be used with the MED software.

Example: Manage Mobile Electronic Documentation

Select Clinical Informatics Main Menu Option: **MANAGE MOBILE ELECTRONIC DOCUMENTATION**

TIU MED HSTYPE may be set for the following:

- 1 User [choose from NEW PERSON]
- 2 Service [choose from SERVICE/SECTION]
- 3 Division [choose from INSTITUTION]
- 4 System [LEBANON.MED.VA.GOV]

Enter Selection: **4** System

Enter a HS for SYSTEM [ANYWHERE.MED.VA.GOV]: **HBPC MED//**

HEALTH SUMMARY PARAMETER DELETE [TIU MED DEL PARM]

This option allows IRM/CAC staff to delete a health summary that has been previously set. Once deleted, MED will use the health summary designated at a higher level such as at the system level.

NOTE: Use the MANAGE MOBILE ELECTRONIC DOCUMENTATION [TIU MED MANAGEMENT] menu option if a change in the currently set health summary type is desired.

Example: Health Summary Parameter Delete

Select Clinical Informatics Main Menu Option: **HEALTH SUMMARY PARAMETER DELETE**

Delete a Health Summary for the following:

- 1 User [choose from NEW PERSON]
- 2 Service [choose from SERVICE/SECTION]
- 3 Division [choose from INSTITUTION]
- 4 System [LEBANON.MED.VA.GOV]

Enter Selection: **1** User

Please Select USER: **MED, PATIENT ONE**

Delete the Health Summary for [MED, PATIENT ONE]? **Yes**

Are you SURE? NO// **Yes**

OTHER SECURITY KEYS

A user must hold either the TIU MED MANUAL PATIENT or the TIU MED MANUAL OVERRIDE security keys to import a progress note from MED when the patient has been manually entered in MED.

1. If the user holds the TIU MED MANUAL PATIENT key, the following must match exactly:
 - a. The first letter of the last name
 - b. The first letter of the first name
 - c. The date of birth
 - d. The nine-digit SSN
2. If the user holds the TIU MED MANUAL OVERRIDE key, the full SSN must match exactly.

NOTE: Most users must **NOT** be given these keys. We suggest a document review and patient review before importing notes into patient records that have typographical or missing data that stops a user from importing the information.

For example, if the user holds the TIU MED MANUAL PATIENT key and has added a manually entered patient like the one shown below, the user will be allowed to import.

CPRS Patient:	MED Patient:
Name: MED, Patient One	Name: MED, Patients One
DOB: 01/01/1950	DOB: 01/01/1950
SSN: 000-44-0001	SSN: 000-44-0001

However, if the user has added a manually entered patient like any of those shown below, the user will not be allowed to import if they only have the TIU MED MANUAL PATIENT key. Holders of the TIU MED MANUAL OVERRIDE key **can** import:

CPRS Patient:	MED Patient:
Name: MED, Patient One	Name: MED, Case One
DOB: 01/01/1950	DOB: 01/01/1950
SSN: 000-44-0001	SSN: 000-44-0001

Holders of the TIU MED MANUAL OVERRIDE key **can** import:

CPRS Patient:	MED Patient:
Name: MED, Patient One	Name: MED, Patient One
DOB: 01/01/1950	DOB: 01/21/1950
SSN: 000-44-0001	SSN: 000-44-0001

This record cannot be imported regardless of the key a user holds since the SSN does not match.

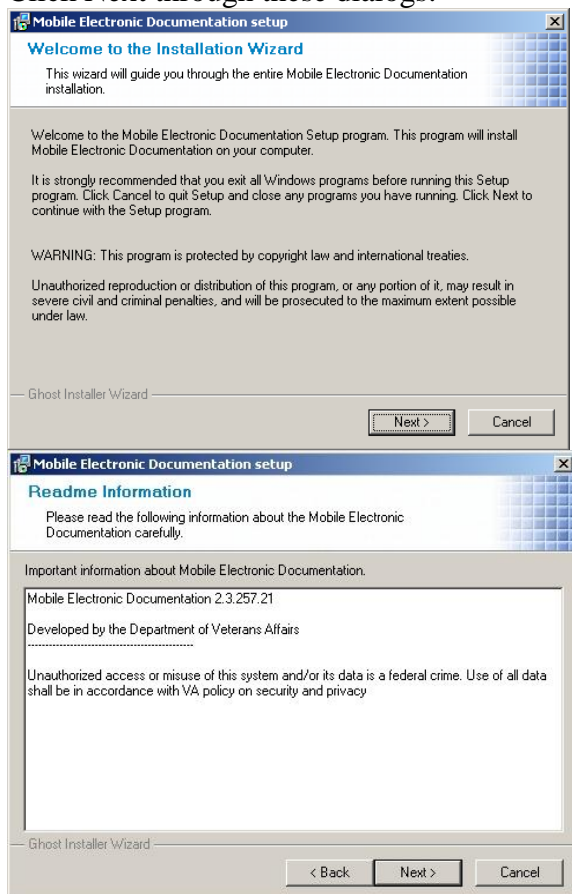
CPRS Patient:	MED Patient:
Name: MED, Patient One	Name: MED, Patient One
DOB: 01/01/1950	DOB: 01/01/1950
SSN: 000-44-0001	SSN: 000-44-0002

Once configuration within VistA is completed, the MED client will need to be installed and configured on the laptop/workstation of each user.

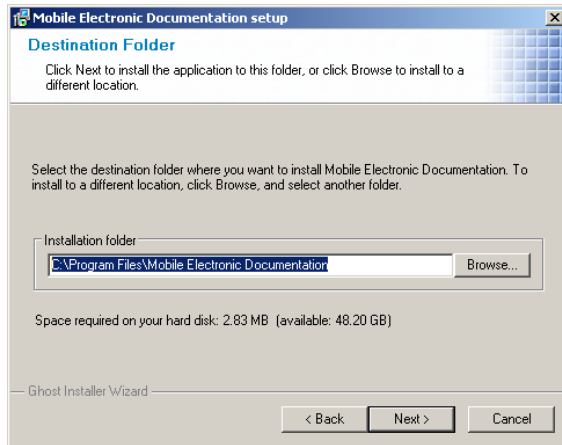
Client Installation

To install MED, run the “MED Setup.exe” file from the client laptop/workstation to which you are installing. This will install the application, help files, CPRS Import COM Component, and any Templates from the installation path’s templates folder.

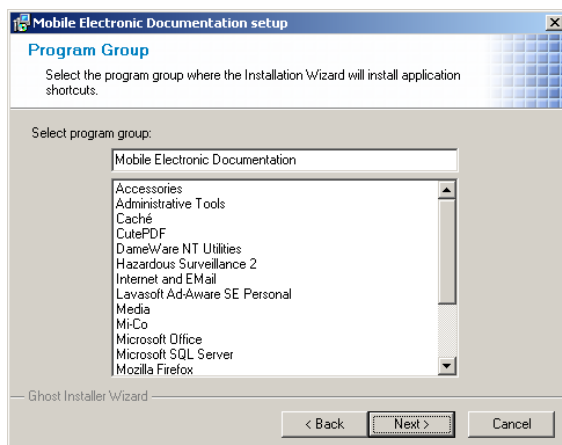
Click Next through these dialogs:



By default, MED installs in the C:\Program Files\Mobile Electronic Documentation\ folder. You may change the installation folder by clicking the Browse button.



Click Next to select a Program Group. By default, “Mobile Electronic Documentation” is used.



Click Next to begin installing the files and then Finish.

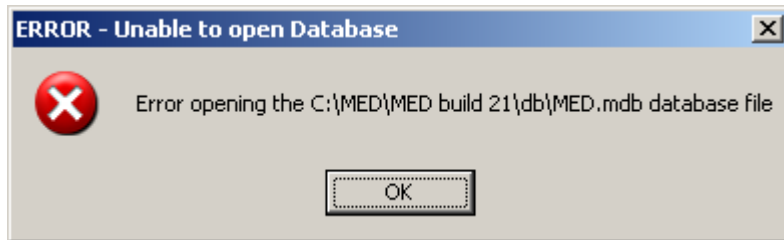
A folder is created in the All Programs group, and a shortcut is placed on the user desktop.

Uninstall exists both in the standard windows Add/Remove programs as well as in the program group. You may wish to remove the Uninstall folder from the program group to ensure that users do not attempt to uninstall MED.

Error Messages

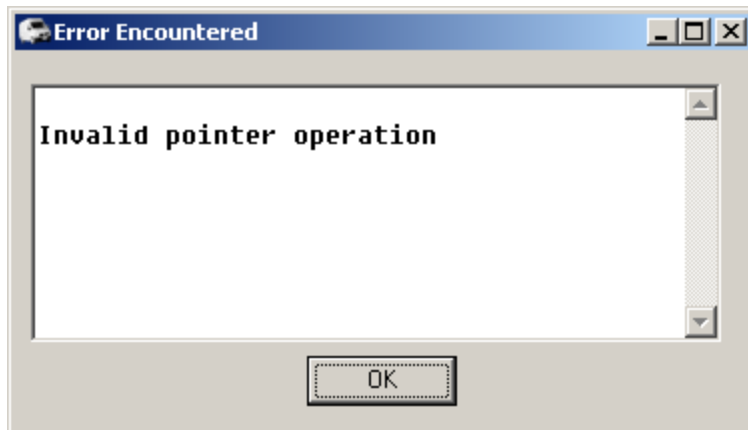
MED is not installed correctly.

In this error MED is installed in C:\MED\MED build 21 directory. The MED database, MED.mdb, should be in the db subdirectory, C:\MED\MED build 21\db\MED.mdb. Reinstall it to fix it.



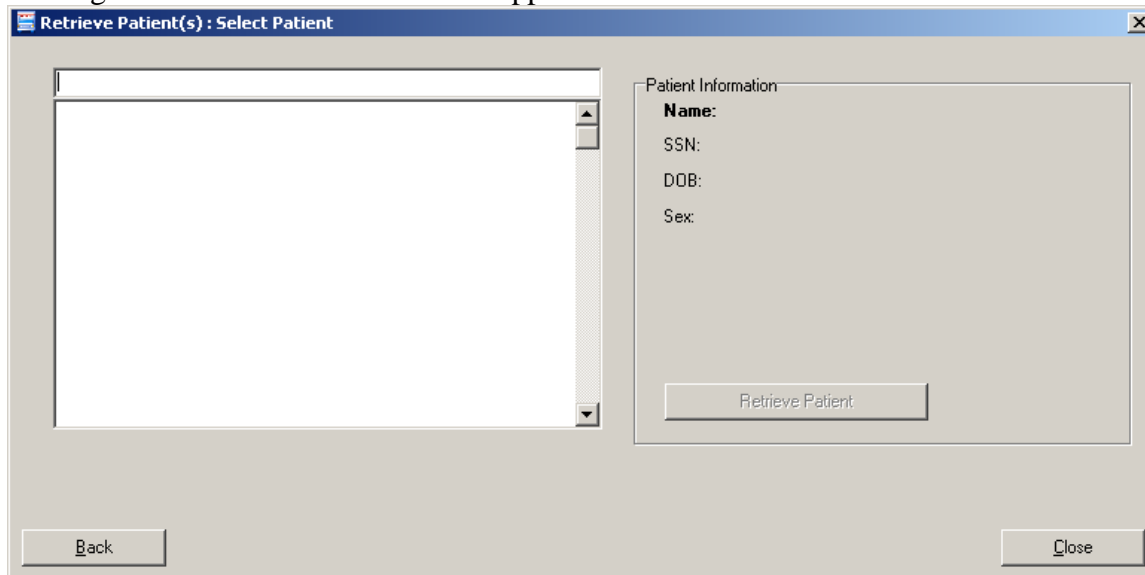
Invalid Pointer operation

This error occurred because the MED VistA KIDS install was not correct. It was missing all the Remote Procedures. Installing/Reinstalling TIU*1*257.KID will fix this.

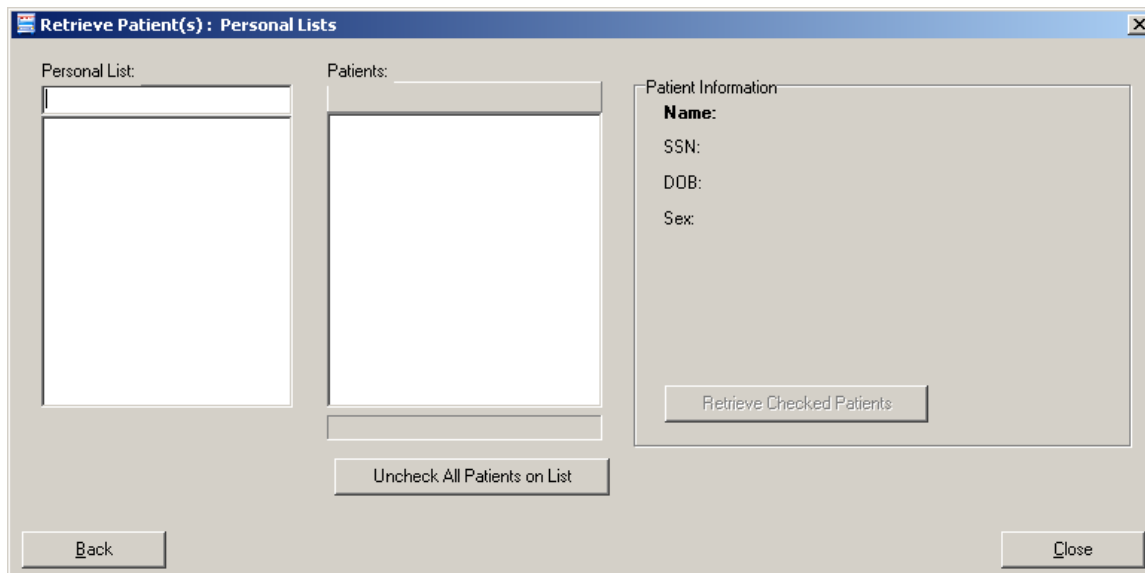


Very long pause after selecting retrieve patients, then the Retrieve Patients is just blank:
Check the shortcut and verify that the server and port numbers are there and correct. Also, check for a network connection error.

These blank screens are due to the Broker failing to make a Vista connection. MED will still be running but not connected when this happens.

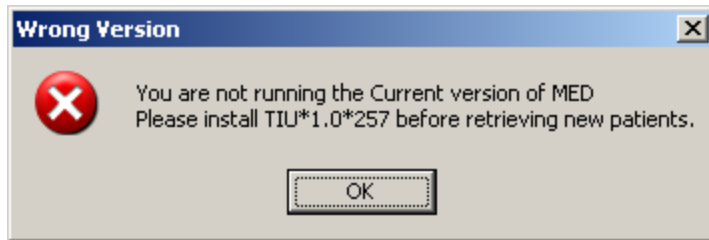


Or



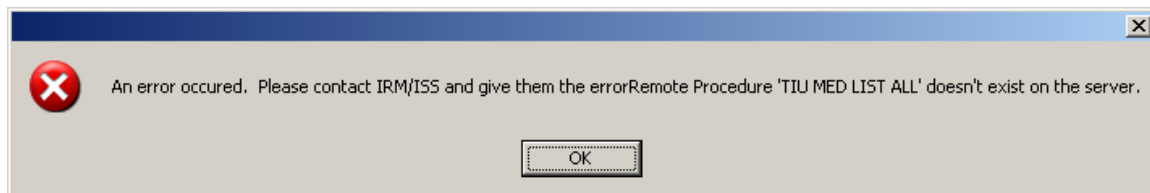
MED Vista is not installed or is the wrong KIDS version.

Fix this by installing the TIU*1*257. kid package.



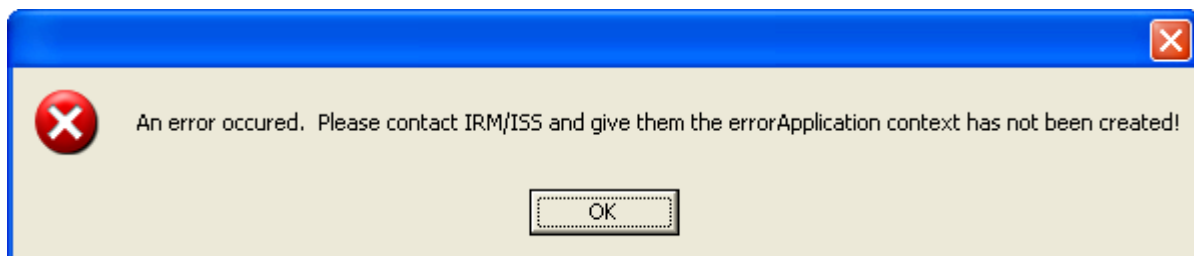
TIU*1*257 is either not installed or has parts missing.

Re-install TIU*1*257 to fix this also.



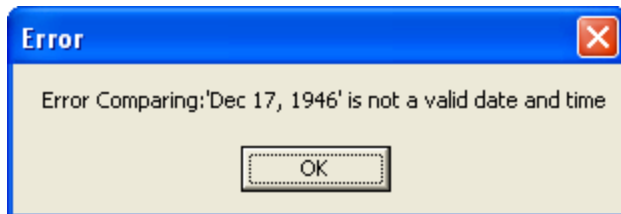
Application Context error

“Application context” is a Menu requirement for using all broker calls. Each application has its own application context. The MED application context is TIU MED GUI RPC V2. This menu option is new with TIU*1*257 and will need to be assigned to all MED users either on a common menu or one of the user’s secondary menus.

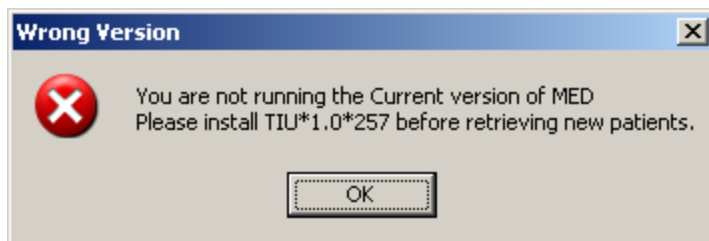


Date error

This error may be seen during the patient import process. Clicking the OK button will actually retrieve the data. The Date of Birth is in the wrong format in the MED database (MED.mdb). First verify that the correct MED GUI is running. If it is the correct GUI, then the current patient information is from a prior version. To fix this just use the current MED GUI to retrieve the patient data and it will properly update the DOB in the MED database.



TIU*1*257.KID in Vista has not been installed.



508 Errors

Prior versions of MED highlighted required fields as yellow. To make MED 508 compliant, the color of the fields are now set to Active Caption Color the can be changed by changing the Windows Theme.

